

COLLAGEN-BASED BIOMATERIAL FOR TISSUE REPAIR

Abstract of the Disclosure

The present invention relates to a process for preparing a biomaterial for tissue repair, which comprises the steps of cross-linking collagen of a collagen-based tissue obtained from a mammal, decellularizing the tissue and freeze-drying the cell-free tissue by employing a cryoprotective solution, and a biomaterial for tissue repair prepared by the said process. The process for preparing a biomaterial for tissue repair of the invention comprises the steps of procuring a collagen-based biological tissue from a mammal; treating the biological tissue with polyepoxy compound to obtain a biological tissue with cross-linked collagen structure; decellularizing the biological tissue thus obtained to give a cell-free tissue; and, immersing the cell-free tissue in a cryoprotective solution containing hyaluronic acid and freeze-drying the said tissue. In accordance with the present invention, a biomaterial for tissue repair with more stabilized collagen structure can be prepared by a simpler process than the prior processes, which makes possible the economical preparation of various biomaterials for tissue repair.

S:\DOCS\MCK\MCK-7573.DOC
071003